

# sdrgantibody.txt

? e au=foster, timothy

Ref	Items	Index-term
E1	12	AU=FOSTER, TIM J.
E2	1	AU=FOSTER, TIMONTHY J.
E3	17	AU=FOSTER, TIMOTHY
E4	1	AU=FOSTER, TIMOTHY A
E5	1	AU=FOSTER, TIMOTHY D.
E6	1	AU=FOSTER, TIMOTHY DAVID
E7	1	AU=FOSTER, TIMOTHY E
E8	49	AU=FOSTER, TIMOTHY J
E9	124	AU=FOSTER, TIMOTHY J.
E10	2	AU=FOSTER, TIMOTHY JAMES
E11	10	AU=FOSTER, TIMOTHY JOHN
E12	14	AU=FOSTER, TIMOTHY P
E13	17	AU=FOSTER, TIMOTHY P.
E14	2	AU=FOSTER, TIMOTHY PAUL
E15	1	AU=FOSTER, TIMOTHY R.V.
E16	1	AU=FOSTER, TIMOTHY. J.
E17	1	AU=FOSTER, TINA C.
E18	89	AU=FOSTER, TJ
E19	11	AU=FOSTER, TJ*
E20	2	AU=FOSTER, TL
E21	27	AU=FOSTER, TM
E22	2	AU=FOSTER, TM*
E23	1	AU=FOSTER, TOBIAS
E24	1	AU=FOSTER, TODD
E25	1	AU=FOSTER, TODD J.

Enter PAGE for more

? s e1-e3, e8-e11

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	12	AU=FOSTER, TIM J.
	1	AU=FOSTER, TIMONTHY J.
	17	AU=FOSTER, TIMOTHY
	49	AU=FOSTER, TIMOTHY J
	124	AU=FOSTER, TIMOTHY J.
	2	AU=FOSTER, TIMOTHY JAMES
	10	AU=FOSTER, TIMOTHY JOHN
S1	215	S E1-E3, E8-E11

? s antiobod\$ or serum or immunoglobulin or monoclonal or polyclonal

S2 5844286 S ANTIODOD\$ OR SERUM OR IMMUNOGLOBULIN OR MONOCLONAL OR POLYCLONAL

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? s antiobod? or serum or immunoglobulin or monoclonal or polyclonal

S3 5844319 S ANTIODOD? OR SERUM OR IMMUNOGLOBULIN OR MONOCLONAL OR POLYCLONAL

? s SdrG or Sdr or Fbe

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Processing  
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	134	SDRG
	7772	SDR
	1055	FBE
S4	8909	S SDRG OR SDR OR FBE

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? s s3 and s4

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[illegible]

5844319 S3

8909 S4

S5                    395                    S S3 AND S4

? s s5 and fibrinogen

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395 S5

213349 FIBRINOGEN

S6 52 S S5 AND FIBRINOGEN

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## Processing

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>>>W: Duplicate detection is not supported for File 393.  
Records from unsupported files will be retained in the RD set.  
S7 22 RD (UNIQUE ITEMS)

? t s7/medium,k/1-22

>>>W: KWIC option is not available in file(s): 399

7/K/1 (Item 1 from file: 5) Links

Fulltext available through: USPTO Full Text Retrieval Options

Biosis Previews(R)

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0019555755 Biosis No.: 200700215496

A panel of monoclonal antibodies recognizing the Staphylococcus epidermidis  
fibrinogen-binding MSCRAMM SdrG

Author: Hall Andrea E; Patel Pratiksha R; Domanski Paul J; Prater Bradley D;  
Gorovits Elena L; Syribeys Peter J; Vernachio John H; Patti Joseph M; Hutchins Jeff  
T (Reprint)

Author Address: Inhibitex Inc, 9005 Westside Pkwy, Alpharetta, GA 30004 USA\*\*USA

Author E-mail Address: jhutchins@inhibitex.com

Journal: Hybridoma 26 ( 1 ): p 28-34 FEB 2007 2007

ISSN: 1554-0014

Document Type: Article

Record Type: Abstract

Language: English

A panel of monoclonal antibodies recognizing the Staphylococcus epidermidis  
fibrinogen-binding MSCRAMM SdrG

Abstract: ...stage contributing to the pathogenesis of this bacteria is the initial  
adherence to host tissue. SdrG is a cell-wall-anchored fibrinogen-binding adhesin of  
S. epidermidis that has been shown to be necessary for bacterial binding to  
fibrinogen-coated foreign bodies, such as catheters. Here we report the generation  
and characterization of a panel of monoclonal antibodies (MAbs) directed against  
this S. epidermidis virulence factor. Through the use of multiple in... ..that may  
prove to be beneficial in studies that address the precise biologic role of SdrG.

DESCRIPTORS:

Chemicals & Biochemicals: fibrinogen; ... ..monoclonal antibody... ..SdrG

>>>W: KWIC option is not available in file(s): 399

7/K/2 (Item 2 from file: 5) Links

Fulltext available through: American Society for Microbiology custom link

USPTO Full Text Retrieval Options

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18943764 Biosis No.: 200600289159

Human immunoglobulin G recognizing fibrinogen-binding surface proteins is protective  
against both Staphylococcus aureus and Staphylococcus epidermidis infections in vivo

Author: Vernachio John H (Reprint); Bayer Arnold S; Ames Brenda; Bryant Dawn; Prater  
Bradley D; Syribeys Peter J; Gorovits Elena L; Patti Joseph M

Author Address: Inhibitex Inc, 9005 Westside Pkwy, Alpharetta, GA 30004 USA\*\*USA

sdrgantibody.txt

Author E-mail Address: jvernachio@inhibitex.com

Journal: Antimicrobial Agents and Chemotherapy 50 ( 2 ): p 511-518 FEB 2006 2006

ISSN: 0066-4804

Document Type: Article

Record Type: Abstract

Language: English

Human immunoglobulin G recognizing fibrinogen-binding surface proteins is protective against both *Staphylococcus aureus* and *Staphylococcus epidermidis* infections in vivo

Abstract: A human donor-selected immunoglobulin G for intravenous injection (IGIV) product with elevated titers against the staphylococcal fibrinogen-binding MSCRAMM proteins ClfA and SdrG (INH-A21) was tested in vitro and in vivo. INH-A21 contained a significantly increased ability to inhibit the fibrinogen-binding activity of recombinant forms of both ClfA and SdrG. Evaluation of the opsonizing potential of INH-A21 was evaluated using fluorescently labeled bacteria; this...

DESCRIPTORS:

Chemicals & Biochemicals: ...immunoglobulin G... ...SdrG; ...  
...fibrinogen-binding surface proteins

>>>W: KWIC option is not available in file(s): 399

7/K/3 (Item 3 from file: 5) Links

Fulltext available through: USPTO Full Text Retrieval Options

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18192570 Biosis No.: 200500098483

A fibrinogen-binding protein of *Staphylococcus lugdunensis*

Author: Nilsson Martin; Bjerketorp Joakim; Guss Bengt; Frykberg Lars (Reprint)

Author Address: Dept Microbiol, Swedish Univ Agr Sci, POB 7025, SE-75007, Uppsala, Sweden\*\* Sweden

Author E-mail Address: lars.frykberg@mikrob.slu.se

Journal: FEMS Microbiology Letters 241 ( 1 ): p 87-93 December 1, 2004 2004

Medium: print

ISSN: 0378-1097

Document Type: Article

Record Type: Abstract

Language: English

A fibrinogen-binding protein of *Staphylococcus lugdunensis*

Abstract: A gene called fbl, encoding a *Staphylococcus lugdunensis* fibrinogen-binding protein, was identified by phage display. The encoded protein, Fbl, is a member of the Sdr-family, a group of staphylococcal cell surface proteins containing a characteristic serine-aspartate repeat region. The fibrinogen-binding domain was mapped to 313 amino acids, and shows, 62% identity to the corresponding region in clumping factor (ClfA) from *Staphylococcus aureus*. Anti-serum against ClfA cross-reacted with Fbl, and blocked *S. lugdunensis* adherence to fibrinogen. Twelve clinical isolates of *S. lugdunensis* analysed by Southern blot all had an fbl-like...

DESCRIPTORS:

Chemicals & Biochemicals: fibrinogen; ... ...fibrinogen-binding protein

>>>W: KWIC option is not available in file(s): 399

7/K/4 (Item 4 from file: 5) Links

Fulltext available through: USPTO Full Text Retrieval Options

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18024813 Biosis No.: 200400395602

beta2-integrins mediate a novel form of chemoresistance in cycloheximide-induced U937 apoptosis

sdrgantibody.txt

Author: Wu R-C; Wang Z (Reprint); Liu M-J; Chen D-F; Yue X-S  
Author Address: Dept Biol Sci and Biotechnol, Tsing Hua Univ, Beijing, 100084, China\*\*China  
Author E-mail Address: zwang@tsinghua.edu.cn  
Journal: CMLS Cellular and Molecular Life Sciences 61 ( 16 ): p 2071-2082 August 2004 2004  
Medium: print  
ISSN: 1420-682X  
Document Type: Article  
Record Type: Abstract  
Language: English

Abstract: ...leukaemic cell line U937, a novel form of chemoresistance, which we termed sudden drug resistance (SDR), was identified using Hoechst33258 staining, western blott and DNA Ladder. CHXhigh (10-100 mug/ml ... ..inhibited by short-term preincubation with CHXlow (2.5 mug/ml). Unlike typical multidrug resistance, SDR is not caused by reduced drug accumulation or altered protein expression, and may be associated... ..adhesion has been suggested to influence cell survival and prevent apoptosis. EDTA, or anti-CD18 monoclonal antibody, but not EGTA, acetylsalicylic acid or RGDS tetrapeptide, abrogated this homotypic aggregation and greatly increased CHX-induced apoptosis in a time-dependent manner, while fibrinogen and soluble intercellular adhesion molecule-1 exerted opposite effects. These results establish that beta2-integrin engagement is a key mediator of SDR, although it may be non-exclusive. This finding supplements the classical basis of chemoresistance and...

DESCRIPTORS:

Chemicals & Biochemicals: ...anti-CD18 monoclonal antibody...  
Miscellaneous Terms: Concept Codes: sudden drug resistance {SDR}

>>>W: KWIC option is not available in file(s): 399

7/K/5 (Item 5 from file: 5) Links

Fulltext available through: USPTO Full Text Retrieval Options

Biosis Previews(R)

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17564571 Biosis No.: 200300519934

Methicillin-resistant Staphylococcus aureus isolates carrying pls invade host cells less efficiently than pls-negative MRSA isolates.

Author: Sinha B (Reprint); Juuti K; Werbick C (Reprint); Kuusela P; Peters G (Reprint)

Author Address: Institute of Medical Microbiology, University Hospital of Muenster, Muenster, Germany\*\*Germany

Journal: Abstracts of the General Meeting of the American Society for Microbiology 103 p B-207 2003 2003

Medium: cd-rom

Conference/Meeting: 103rd American Society for Microbiology General Meeting

Washington, DC, USA May 18-22, 2003; 20030518

Sponsor: American Society for Microbiology

ISSN: 1060-2011 \_(ISSN print)

Document Type: Meeting; Meeting Abstract

Record Type: Abstract

Language: English

Abstract: ...MSSA isolates. Pls (plasmin-sensitive) is a cell wall-anchored surface protein, belonging to the Sdr family of adhesins. Since adherence of pls-positive MRSA isolates to immobilized IgG, fibrinogen and Fn is reduced, we tested, whether this is also true for cellular invasiveness. Methods...

DESCRIPTORS:

Chemicals & Biochemicals: IgG {immunoglobulin G...

>>>W: KWIC option is not available in file(s): 399

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7/K/6 (Item 6 from file: 5) Links

Biosis Previews(R)

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17309113 Biosis No.: 200300277832

MSCRAMM(R) protein mAb protects against S. epidermidis central venous catheter induced infection.

Author: Vernachio J (Reprint); Bryant D (Reprint); Hall A (Reprint); Patel P (Reprint); Domanski P (Reprint); Syribeys P (Reprint); Gorovits E (Reprint); Wang J (Reprint); Robbins J (Reprint); Hutchins J (Reprint); Patti J (Reprint)

Author Address: Inhibitex, Inc., Alpharetta, GA, USA\*\*USA

Journal: Abstracts of the Interscience Conference on Antimicrobial Agents and Chemotherapy 42 p 32 2002 2002

Medium: print

Conference/Meeting: American Society for Microbiology (ASM) Annual Meeting on Infectious Disease San Diego, CA, USA September 27-30, 2002; 20020927

Sponsor: American Society for Microbiology

Document Type: Meeting; Meeting Abstract

Record Type: Abstract

Language: English

Abstract: ...both a reduction in the incidence and severity of disease. We have demonstrated that a monoclonal antibody (mAb) against the MSCRAMM(R) protein, SdrG, inhibits the binding to human fibrinogen in vitro and also provides significant protection against methicillin resistant S. epidermidis (MRSE) challenge in... ..infection model. Methods: Clinical efficacy was evaluated in a rat model of CVC-associated infection. SdrG mAb 59-59 (n=10) and a control mAb (n=13) were administered IV. 24... ..were infected (13/13). Conclusions: These data clearly demonstrate that a single infusion with a SdrG mAb can significantly prevent catheter associated MRSE bacteremia and subsequent hematogenous dissemination to target organs.

DESCRIPTORS:

Chemicals & Biochemicals: ...monoclonal antibodies... ..MSCRAMM protein  
monoclonal antibody

>>>W: KWIC option is not available in file(s): 399

7/K/7 (Item 7 from file: 5) Links

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16972468 Biosis No.: 200200565979

Prevention of experimental Staphylococcus epidermidis (SE) endocarditis (IE) by passive immunotherapy with INH-A00021, a human IgG directed against staphylococcal fibrinogen-binding proteins

Author: Kupferwasser L I (Reprint); Prater B; Wang J; Ruckstuhl M J; Lee K; Gast D; Adams D; Patti J M; Bayer A S (Reprint)

Author Address: Harbor-UCLA Res. and Ed. Inst., Torrance, CA, USA\*\*USA

Journal: Abstracts of the Interscience Conference on Antimicrobial Agents and Chemotherapy 41 p 278 2001 2001

Medium: print

Conference/Meeting: 41st Annual Meeting of the Interscience Conference on Antimicrobial Agents and Chemotherapy Chicago, Illinois, USA September 22-25, 2001; 20010922

Document Type: Article; Meeting

Record Type: Abstract

Language: English

...SE) endocarditis (IE) by passive immunotherapy with INH-A00021, a human IgG directed against staphylococcal fibrinogen-binding proteins

Abstract: Background: SE is a major cause of endovascular infections, utilizing adhesins such as the fibrinogen-binding adhesin, SdrG, to bind to sites of endovascular damage. Purpose: INH-A00021 is a donor-selected, plasma-derived

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hyperimmune globulin containing elevated levels of IgG against the staphylococcal fibrinogen-binding proteins, SdrG, and ClfA. This study evaluated the efficacy of INH-A00021 in attenuating experimental SE IE... ..p=0.0006). Also, the extent of bacteremia was significantly lower in animals receiving anti-SdrG, when compared to controls (p<0.01). Results of quantitative tissue cultures (mean log10CFU/g...

DESCRIPTORS:

Chemicals & Biochemicals: ...IgG {immunoglobulin G... ..SdrG--...  
...fibrinogen-binding adhesion... ..staphylococcal fibrinogen-binding proteins

>>>W: KWIC option is not available in file(s): 399

7/K/8 (Item 8 from file: 5) Links

Fulltext available through: USPTO Full Text Retrieval Options

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15411492 Biosis No.: 200000129805

A bone sialoprotein-binding protein from Staphylococcus aureus: A member of the staphylococcal Sdr family

Author: Tung Hui-shan; Guss Bengt; Hellman Ulf; Persson Lena; Rubin Kristofer; Ryden Cecilia (Reprint)

Author Address: Department of Medical Biochemistry and Microbiology, Uppsala University, BMC, SE-751 23, Uppsala, Sweden\*\*Sweden

Journal: Biochemical Journal 345 ( 3 ): p 611-619 Feb. 1, 2000 2000

Medium: print

ISSN: 0264-6021

Document Type: Article

Record Type: Abstract

Language: English

A bone sialoprotein-binding protein from Staphylococcus aureus: A member of the staphylococcal Sdr family

Abstract: ...acids, called BSP-binding protein (Bbp), which displays similarity to recently described proteins of the Sdr family from S. aureus. SdrC, SdrD and SdrE encode putative cell-surface proteins with no described ligand specificity. Bbp also shows similarity to a fibrinogen -binding protein from S. epidermidis called Fbe. A serine-aspartic acid repeat sequence was found close to the cell-wall-anchoring Leu... ..protein bound radiolabelled native BSP, and inhibited the binding of radiolabelled BSP to staphylococcal cells. Serum from patients suffering from bone and joint infection contained antibodies that reacted with the fusion...

DESCRIPTORS:

Chemicals & Biochemicals: Sdr;

>>>W: KWIC option is not available in file(s): 399

7/K/9 (Item 1 from file: 34) Links

Fulltext available through: American Society for Microbiology custom link

USPTO Full Text Retrieval Options

SciSearch(R) Cited Ref Sci

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09577298 Genuine Article#: 423CT No. References: 51

Expression of pls, a gene closely associated with the mecA gene of methicillin-resistant Staphylococcus aureus, prevents bacterial adhesion in vitro

Author: Savolainen K (REPRINT) ; Paulin L; Westerlund-Wikstrom B; Foster TJ; Korhonen TK; Kuusela P

Corporate Source: Univ Helsinki, Div Gen Microbiol, Dept Biosci, POB 56/FIN-00014 Helsinki//Finland/ (REPRINT); Univ Helsinki, Div Gen Microbiol, Dept Biosci, FIN-00014 Helsinki//Finland/; Univ Helsinki, Inst Biotechnol, FIN-00014 Helsinki//Finland/; Univ Helsinki, Haartman Inst, Dept Bacteriol & Immunol, FIN-00014 Helsinki//Finland/; Univ Helsinki, Cent Hosp, HUCH Lab Diagnost, Div Clin Microbiol, Helsinki//Finland/; Univ Dublin Trinity Coll, Moyne Inst Prevent Med, Dept Microbiol, Dublin 2//Ireland/

Journal: INFECTION AND IMMUNITY , 2001 , V 69 , N5 ( MAY ) , P 3013-3020

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ISSN: 0019-9567 Publication date: 20010500

Publisher: AMER SOC MICROBIOLOGY , 1752 N ST NW, WASHINGTON, DC 20036-2904 USA

Language: English Document Type: ARTICLE ( ABSTRACT AVAILABLE )

Abstract: ...distinct repeat regions, one of which was a serine-aspartate repeat characteristic of the Clf-Sdr family of surface proteins in staphylococci, The lengths of the repeat regions varied in different... ..digested DNA. A pls mutant constructed by allele replacement adhered well to immobilized fibronectin and immunoglobulin e, in contrast to the parental strain, suggesting that Pls could have a role in...

Identifiers-- ...FIBRINOGEN-BINDING PROTEIN; NUCLEOTIDE-SEQUENCE; CLUMPING FACTOR; INSERTIONAL INACTIVATION; ESCHERICHIA-COLI; REPEAT REGION; FIBRONECTIN; CLONING; DNA

>>>W: KWIC option is not available in file(s): 399

7/K/10 (Item 2 from file: 34) Links

Fulltext available through: USPTO Full Text Retrieval Options

SciSearch(R) Cited Ref Sci

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02147492 Genuine Article#: KE378 No. References: 43

INHIBITION OF PLATELET-ADHESION TO FIBRIN(OGEN) IN FLOWING WHOLE-BLOOD BY ARG-GLY-ASP AND FIBRINOGEN GAMMA-CHAIN CARBOXY TERMINAL PEPTIDES

Author: HANTGAN RR; ENDENBURG SC; CAVERO I; MARGUERIE G; UZAN A; SIXMA JJ; DEGROOT PG

Corporate Source: WAKE FOREST UNIV,BOWMAN GRAY SCH MED,DEPT BIOCHEM,MED CTR BLVD/WINSTON SALEM//NC/27157; UNIV UTRECHT,DEPT HEMATOL/UTRECHT//NETHERLANDS/; RHONE

POULENC RORER RD/VITRY//FRANCE/; INSERM,U127,HEMATOL LAB/GRENOBLE//FRANCE/

Journal: THROMBOSIS AND HAEMOSTASIS , 1992 , V 68 , N6 ( DEC 7 ) , P 694-700

ISSN: 0340-6245

Language: ENGLISH Document Type: ARTICLE ( Abstract Available )

...OF PLATELET-ADHESION TO FIBRIN(OGEN) IN FLOWING WHOLE-BLOOD BY ARG-GLY-ASP AND FIBRINOGEN GAMMA-CHAIN CARBOXY TERMINAL PEPTIDES

Abstract: we have employed synthetic peptides with sequences corresponding to the integrin receptor-recognition regions of fibrinogen as inhibitors of platelet aggregation and adhesion to fibrinogen and fibrin-coated surfaces in flowing whole blood, using a rectangular perfusion chamber at wall... ..1,300 s-1. D-RGDW caused substantial inhibition of platelet aggregation and adhesion to fibrinogen and fibrin at both shear rates, although it was least effective at blocking platelet adhesion... ..300 s-1. RGDS was a weaker inhibitor, and produced a biphasic dose-response curve; SDRG was inactive. HHLGGAKQAGDV partially inhibited platelet aggregation and adhesion to fibrin(ogen) at both shear ...

Identifiers-- ...GLYCOPROTEIN-IIB-IIIA; VONWILLEBRAND-FACTOR; MONOCLONAL -ANTIBODIES; ARTIFICIAL SURFACES; BINDING; RECEPTOR; SUBENDOTHELIUM; COMPLEX; CELLS; FIBRONECTIN

Research Fronts: 91-2339 004 (PLATELET GLYCOPROTEIN-IIB-IIIA COMPLEX; FIBRINOGEN RECEPTOR ANTAGONIST; ANTIPLATELET ARG-GLY-ASP-CONTAINING PEPTIDE; SNAKE-VENOM PROTEIN ECHISTATIN)

91-5876 001...

>>>W: KWIC option is not available in file(s): 399

7/K/11 (Item 1 from file: 50) Links

Fulltext available through: USPTO Full Text Retrieval Options

CAB Abstracts

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0008126189 CAB Accession Number: 20013167686

Fibrinogen - and von Willebrand factor-binding proteins in staphylococci.

Nilsson, M.

Department of Microbiology, Swedish University of Agricultural Sciences, Box 7025, S-750 07 Uppsala, Sweden.

Acta Universitatis Agriculturae Sueciae - Agraria ( 265 ): p.115

Publication Year: 2001



ISSN: 1401-6249

Publisher: Sveriges Lantbruksuniversitet (Swedish University of Agricultural Sciences) Uppsala , Sweden

ISBN: 91-576-5791-2

Language: English Record Type: Abstract

Document Type: Thesis

Fibrinogen - and von Willebrand factor-binding proteins in staphylococci. ... genes, isolated from coagulase-negative staphylococci (CONS) associated with human infections, and their corresponding proteins. Fbe and Fbl are the main fibrinogen (Fg)-binding proteins of *Staphylococcus epidermidis* and *S. lugdunensis* , respectively. Both proteins are members of the Sdr (SD-repeat containing protein) family, a subgroup of cell surface proteins in staphylococci with a... .. less perfect, tandemly repeated serine and aspartate residues. Sequence comparisons in the binding regions between Fbe and Fbl revealed low mutual similarity. However, Fbl is relatively conserved (63% identity) in the binding region compared to clumping factor A (ClfA), the prototype Sdr protein from *S. aureus* . The third gene, vwbl , encodes a putative von Willebrand factor (vwf... .. an overall organization, that is characteristic for cell surface proteins in staphylococci. The importance of Fbe, Fbl and vwbl for their respective organisms during the infection process is not known, but ... .. to extracellular matrix or plasma-coated biomaterials. Separate recombinant constructs, comprising the binding regions of Fbe and Fbl or separate antibodies directed against the binding regions of the proteins, were able... .. the adherence of *S. epidermidis* and *S. lugdunensis* , respectively, to immobilized Fg. The presence of fbe, fbl and vwbl genes is very common in clinical isolates of the respective species. In... .. these experiments, vwbp immobilized on a Sepharose-column was used to purify vwf from human serum. The gene vwbl was present in all tested strains of *S. aureus* .

Descriptors: ...fibrinogen;

>>>W: KWIC option is not available in file(s): 399

7/K/12 (Item 1 from file: 71) Links

Fulltext available through: USPTO Full Text Retrieval Options

ELSEVIER BIOBASE

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02747070 2004224218

betaSUB2-integrins mediate a novel form of chemoresistance in cycloheximide-induced U937 apoptosis

Wu R.-C.; Wang Z.; Liu M.-J.; Chen D.-F.; Yue X.-S.

Address: Z. Wang, Dept. of Biol. Sci. and Biotech., Tsinghua University, Beijing , China

Email: zwang@tsinghua.edu.cn

Journal : Cellular and Molecular Life Sciences , 61/16 (2071-2082) , 2004 , Switzerland

CODEN: CMLSF

ISSN: 1420-682X

Document Type: Article

Languages: English Summary Languages: English

No. of References: 48

#### DESCRIPTORS:

Apoptosis; Cycloheximide; U937 cell; betaSUB2-integrin; Drug resistance; PI-3K

#### CLASSIFICATION CODE AND DESCRIPTION:

Modlucular Sequence Databank Number: 87.2.1.5 - CANCER RESEARCH / TUMOUR BIOLOGY / Cellular Biology and Biochemistry / Immortalisation, senescence and apoptosis

87.4.1.15 - CANCER RESEARCH / TREATMENT / Chemotherapy / Resistance

87.4.11 - CANCER RESEARCH / TREATMENT / Treatment Monitoring and Evaluation

...leukaemic cell line U937, a novel form of chemoresistance, which we termed sudden drug resistance (SDR), was identified using Hoechst33258 staining, western blott and

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DNA Ladder. CHXSUPhigh (10-100 mug/ml... ..inhibited by short-term preincubation with CHXSUBlow (2.5 mug/ml). Unlike typical multidrug resistance, SDR is not caused by reduced drug accumulation or altered protein expression, and may be associated... ..has been suggested to influence cell survival and prevent apoptosis. EDTA, or anti-CD 18 monoclonal antibody, but not EGTA, acetylsalicylic acid or RGDS tetrapeptide, abrogated this homotypic aggregation and greatly increased CHX-induced apoptosis in a time-dependent manner, while fibrinogen and soluble intercellular adhesion molecule-1 exerted opposite effects. These results establish that betaSUB2-integrin engagement is a key mediator of SDR, although it may be non-exclusive. This finding supplements the classical basis of chemoresistance and...

>>>W: KWIC option is not available in file(s): 399

7/K/13 (Item 1 from file: 155) Links

Fulltext available through: USPTO Full Text Retrieval Options

MEDLINE(R)

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15223135 PMID: 15583173

Protein FOG--a streptococcal inhibitor of neutrophil function.

Johansson Helena M; Morgelin Matthias; Frick Inga-Maria  
Department of Cell and Molecular Biology, Section for Clinical and Experimental  
Infectious Medicine, BMC, B14, Lund University, S-221 84 Lund, Sweden.  
Microbiology (Reading, England) ( England ) Dec 2004 , 150 (Pt 12) p4211-21 ,  
ISSN: 1350-0872--Print Journal Code: 9430468

Publishing Model Print

Document type: Journal Article; Research Support, Non-U.S. Gov't

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

...of group G streptococci (GGS) form aggregates when grown in vitro. Aggregating strains interact with fibrinogen, and this study reports the isolation of a novel self-associating and fibrinogen-binding protein of GGS, denoted protein FOG. Sequencing of the fog gene revealed structural similarity... ..of GGS express protein G, a protein known to interact with the constant region of immunoglobulin G and albumin. Surprisingly, a clinical isolate expressing protein G, but lacking protein FOG, was... ..negative strain from being killed. The antibactericidal property of protein FOG is dependent on its fibrinogen-binding activity. Thus, in plasma, FOG precipitates fibrinogen, and when added to whole blood, protein FOG triggers the formation of visible aggregates comprising fibrinogen and neutrophils that are disabled in their killing of the bacteria. Moreover, the results emphasize...

Descriptors: \*Bacterial Proteins--metabolism--ME; \*Blood--microbiology--MI; \*Carrier Proteins--metabolism--ME; \*Fibrinogen--metabolism--ME; \*Neutrophils--immunology--IM; \*Streptococcus--growth and development--GD

Chemical Name: Bacterial Proteins; Carrier Proteins; Fbe protein, bacteria; Fibrinogen

>>>W: KWIC option is not available in file(s): 399

7/K/14 (Item 1 from file: 393) Links

Beilstein Database - Abstracts

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Beilstein Abstract Id: 6577659

Title: Human Immunoglobulin G Recognizing Fibrinogen-Binding Surface Proteins Is Protective against both Staphylococcus aureus and Staphylococcus epidermidis Infections In Vivo

Document Type: Journal Record Type: Abstract

Author: Vernachio, John H.; Bayer, Arnold S.; Ames, Brenda; Bryant, Dawn; Prater, Bradley D.; Syribeys, Peter J.; Gorovits, Elena L.; Patti, Joseph M.

Citation: Antimicrob. Agents & Chemother. (2006) Series: 50-2, 511 - 518 CODEN:

AMACQ Language: English

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Abstract Language: English

Title: Human Immunoglobulin G Recognizing Fibrinogen-Binding Surface Proteins Is Protective against both Staphylococcus aureus and Staphylococcus epidermidis Infections In Vivo

Abstract: A human donor-selected immunoglobulin G for intravenous injection (IGIV) product with elevated titers against the staphylococcal fibrinogen-binding MSCRAMM proteins ClfA and SdrG (INH-A21) was tested in vitro and in vivo. INH-A21 contained a significantly increased ability to inhibit the fibrinogen-binding activity of recombinant forms of both ClfA and SdrG. Evaluation of the opsonizing potential of INH-A21 was evaluated using fluorescently labeled bacteria; this...

>>>W: KWIC option is not available in file(s): 399

7/K/15 (Item 2 from file: 393) Links

Beilstein Database - Abstracts

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Beilstein Abstract Id: 6471865

Title: beta 2 -integrins mediate a novel form of chemoresistance in cycloheximide-induced U937 apoptosis

Document Type: Journal Record Type: Abstract

Author: Wu, R.-C.; Wang, Z.; Liu, M.-J.; Chen, D.-F.; Yue, X.-S.

Citation: Cell. Mol. Life Sci (2004) Series: 61-16, 2071 - 2082 CODEN: CMLSFI

Language: English

Abstract Language: English

Keywords: apoptosis; cycloheximide; U937 cell; Beta 2 -integrin; drug resistance; PI-3K

Abstract: ... leukaemic cell line U937, a novel form of chemoresistance, which we termed sudden drug resistance (SDR), was identified using Hoechst33258 staining, western blott and DNA Ladder. CHX high (10-100  $\mu$ g/ml) ... short-term preincubation with CHX low (2.5  $\mu$ g/ml). Unlike typical multidrug resistance, SDR is not caused by reduced drug accumulation or altered protein expression, and may be associated... ... adhesion has been suggested to influence cell survival and prevent apoptosis. EDTA, or anti-CD18 monoclonal antibody, but not EGTA, acetylsalicylic acid or RGDS tetrapeptide, abrogated this homotypic aggregation and greatly increased CHX-induced apoptosis in a time-dependent manner, while fibrinogen and soluble intercellular adhesion molecule-1 exerted opposite effects. These results establish that beta 2 -integrin engagement is a key mediator of SDR, although it may be non-exclusive. This finding supplements the classical basis of chemoresistance and...

>>>W: KWIC option is not available in file(s): 399

7/K/16 (Item 1 from file: 399) Links

CA SEARCH(R)

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144348882 CA: 144(19)348882p PATENT

Immunogenic composition comprising a mixture of staphylococcal antigens and uses as vaccines

Inventor (Author): Castado, Cindy; Lecrenier, Nicolas Pierre Fernand; Neyt, Cecile Anne; Poolman, Jan

Location: Belg.

Assignee: GlaxoSmithKline Biologicals S.A.

Patent: PCT International ; WO 200632472 A2 Date: 20060330

Application: WO 2005EP10184 (20050920) \*GB 200421082 (20040922) \*GB 200421078

(20040922) \*GB 200421081 (20040922) \*GB 200421079 (20040922) \*GB 20053143 (20050215)

Pages: 132 pp.

CODEN: PIXXD2

Language: English

Patent Classifications:

Class: A61K-000/A

Designated Countries: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HR;

sdrgantibody.txt

HU; ID; IL; IN; IS; JP; KE; KG; KM; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; LY; MA;  
MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD;  
SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM;  
Designated Regional: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE;  
IS; IT; LT; LU; LV; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA;  
GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ;  
UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

>>>W: KWIC option is not available in file(s): 399  
7/K/17 (Item 2 from file: 399) Links  
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141348821 CA: 141(21)348821f PATENT  
Staphylococcus epidermidis-derived hyperimmune serum reactive antigens and encoding  
nucleic acids for diagnosis and treatment of bacterial infection and for antagonist  
screening  
Inventor (Author): Meinke, Andreas; Min, Bui Duc; Nagy, Eszter  
Location: Austria  
Assignee: InterCell AG  
Patent: PCT International ; WO 200487746 A2 Date: 20041014  
Application: WO 2004EP3398 (20040331) \*EP 2003450078 (20030331)  
Pages: 196 pp.  
CODEN: PIXXD2  
Language: English  
Patent Classifications:  
Class: C07K-014/00A  
Designated Countries: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA;  
CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HR;  
HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG;  
MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK;  
SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW  
Designated Regional: BW; GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ;  
BY; KG; KZ; MD; RU; TJ; TM; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
HU; IE; IT; LU; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN;  
GQ; GW; ML; MR; NE; SN; TD; TG

>>>W: KWIC option is not available in file(s): 399  
7/K/18 (Item 3 from file: 399) Links  
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139259972 CA: 139(17)259972x PATENT  
Monoclonal and polyclonal antibodies recognizing coagulase-negative staphylococcal  
proteins  
Inventor (Author): Patti, Joseph M.; Hutchins, Jeff T.; Hall, Andrea; Domanski,  
Paul; Patel, Pratishksha; Hook, Magnus; Robbins, Jeff; Vernachio, John; Bowden, Maria  
G.  
Location: USA  
Assignee: Inhibitex, Inc.; The Texas A & M University System  
Patent: PCT International ; WO 200376470 A1 Date: 20030918  
Application: WO 2003US6415 (20030305) \*US PV361324 (20020305)  
Pages: 72 pp.  
CODEN: PIXXD2  
Language: English  
Patent Classifications:  
Class: C07K-016/00A; C07K-001/00B; C07K-002/00B; C07H-021/04B; A61K-039/395B;  
A61K-039/40B; A61K-039/00B; A61K-039/09B; A61K-039/085B  
Designated Countries: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH;  
CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID;  
IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN;

sdrgantibody.txt

MW; MX; MZ; NO; NZ; OM; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; TJ; TM; TN; TR;  
TT; TZ; UA; UG; UZ; VC; VN; YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM  
Designated Regional: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG;  
CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI;  
SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

>>>W: KWIC option is not available in file(s): 399

7/K/19 (Item 1 from file: 357) Links

Fulltext available through: USPTO Full Text Retrieval Options

Derwent Biotech Res.

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0420861 DBA Accession No.: 2007-06799

A panel of monoclonal antibodies recognizing the Staphylococcus epidermidis  
fibrinogen-binding MSCRAMM SdrG hybridoma cell culture for recombinant monoclonal  
antibody production

Author: HALL AE; PATEL PR; DOMANSKI PJ; PRATER BD; GOROVITS EL; SYRIBEYS PJ;  
VERNACHIO JH; PATTI JM; HUTCHINS JT

Corporate Affiliate: Inhibitex Inc

Corporate Source: Hutchins JT, Inhibitex Inc, 9005 Westside Pkwy, Alpharetta, GA  
30004 USA

Journal: HYBRIDOMA ( 26, 1, 28-34 ) 2007

ISSN: 1554-0014

Language: English

A panel of monoclonal antibodies recognizing the Staphylococcus epidermidis  
fibrinogen-binding MSCRAMM SdrG hybridoma cell culture for recombinant monoclonal  
antibody production

Abstract: ...stage contributing to the pathogenesis of this bacteria is the initial  
adherence to host tissue. SdrG is a cell-wall-anchored fibrinogen-binding adhesin of  
S. epidermidis that has been shown to be necessary for bacterial binding to  
fibrinogen-coated foreign bodies, such as catheters. Here we report the generation  
and characterization of a panel of monoclonal antibodies (MAbs) directed against  
this S. epidermidis virulence factor. Through the use of multiple in... ..that may  
prove to be beneficial in studies that address the precise biologic role of SdrG. (7  
pages)

Descriptors: Staphylococcus epidermidis fibrinogen-binding MSCRAMM SdrG -specific  
recombinant monoclonal antibody prep., purification, characterization,  
plasmid-mediated gene transfer, expression in Lactococcus lactis, hybridoma, mouse  
immunization...

>>>W: KWIC option is not available in file(s): 399

7/K/20 (Item 2 from file: 357) Links

Fulltext available through: USPTO Full Text Retrieval Options

Derwent Biotech Res.

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0358809 DBA Accession No.: 2005-04513

A fibrinogen-binding protein of Staphylococcus lugdunensis identification and  
production of a recombinant fibrinogen binding protein from Staphylococcus  
lugdunensis using phage display and recombinant technology

Author: NILSSON M; BJERKETORP J; GUSS B; FRYKBERG L

Corporate Affiliate: Swedish Univ Agr Sci

Corporate Source: Frykberg L, Swedish Univ Agr Sci, Dept Microbiol, POB 7025,  
SE-75007 Uppsala, Sweden

Journal: FEMS MICROBIOLOGY LETTERS ( 241, 1, 87-93 ) 2004

ISSN: 0378-1097

Language: English

A fibrinogen-binding protein of Staphylococcus lugdunensis identification and  
production of a recombinant fibrinogen binding protein from Staphylococcus  
lugdunensis using phage display and recombinant technology

Abstract: AUTHOR ABSTRACT - A gene called fbl, encoding a Staphylococcus lugdunensis

sdrgantibody.txt

fibrinogen-binding protein, was identified by phage display. The encoded protein, Fbl, is a member of the Sdr-family, a group of staphylococcal cell surface proteins containing a characteristic serine-aspartate repeat region. The fibrinogen-binding domain was mapped to 313 amino acids, and shows, 62% identity to the corresponding region in clumping factor (ClfA) from *Staphylococcus aureus*. Anti- serum against ClfA cross-reacted with Fbl, and blocked *S. lugdunensis* adherence to fibrinogen. Twelve clinical isolates of *S. lugdunensis* analysed by Southern blot all had an fbl-like...

Descriptors: *Staphylococcus lugdunensis*, recombinant fibrinogen binding protein, prep, isol., characterization, phage display, fbl gene identification, Southern blot bacterium surface display...

>>>W: KWIC option is not available in file(s): 399  
7/K/21 (Item 3 from file: 357) Links

Derwent Biotech Res.

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0324377 DBA Accession No.: 2003-25518 PATENT

New antibody recognizing a *Staphylococcus epidermidis* protein comprising SdrG N1N2N3, SdrG N2N3 or SdrGTR2 useful for preparing a composition for treating or preventing a coagulase-negative *Staphylococcal* infection chimeric antibody, humanized antibody, monoclonal antibody and single chain antibody production for vaccine, gene therapy and therapy

Author: PATTI J M; HUTCHINS J T; HALL A; DOMANSKI P; PATEL P; HOOK M; ROBBINS J; VERNACHIO J; BOWDEN M G

Patent Assignee: INHIBITEX INC; UNIV TEXAS A and M SYSTEM 2003

Patent Number: WO 200376470 Patent Date: 20030918 WPI Accession No.: 2003-722324 (200368)

Priority Application Number: US 361324 Application Date: 20020305

National Application Number: WO 2003US6415 Application Date: 20030305

Language: English

New antibody recognizing a *Staphylococcus epidermidis* protein comprising SdrG N1N2N3, SdrG N2N3 or SdrGTR2 useful for preparing a composition for treating or preventing a coagulase-negative *Staphylococcal* infection chimeric antibody, humanized antibody, monoclonal antibody and single chain antibody production for vaccine, gene therapy and therapy

Abstract: DERWENT ABSTRACT: NOVELTY - An isolated antibody (I) that recognizes a protein from *Staphylococcus epidermidis* comprising SdrG N1N2N3, SdrG N2N3 or SdrGTR2, is new. DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for: (1) isolated... ..treating or preventing a coagulase-negative *Staphylococcal* infection; (7) an isolated *S. epidermidis* protein comprising SdrG N1N2N3, SdrG N2N3 or SdrGTR2; (8) eliciting an immunogenic reaction in a human or animal; (9) a... ..epidermidis protein; and (10) an isolated nucleic acid sequence encoding an *S. epidermidis* protein comprising SdrG N1N2N3, SdrG N2N3 or SdrGTR2. BIOTECHNOLOGY - Preferred Antibody: The antibody (I) is selected from chimeric, murine, humanized or human monoclonal antibodies. (I) is a single chain monoclonal antibody. (I) binds to the *S. epidermidis* SdrG protein. (I) recognizes an amino acid sequence selected from the fully defined sequence comprising 560... ..or 951 (S6) base pairs, respectively, as given in the specification. (II) and (III) are monoclonal antibodies. Preferred kit: The kit comprises means for detecting binding by the antibody, which comprises a detectable label linked to the antibody. Preferred Protein: The isolated *S. epidermidis* protein comprising SdrG N1N2N3, SdrG N2N3 or SdrGTR2 comprises an amino acid sequence selected from S1-S3 encoded by a ... ..*Staphylococcal* infection in a human or an animal and inhibits binding of *Staphylococcal* bacteria to fibrinogen, useful for preparing a composition for treating or preventing a coagulase-negative *Staphylococcal* infection. The monoclonal antibodies (II) and (III) comprising 1092 amino acids and 549 amino acids, respectively are also... ..for treating or preventing a coagulase-negative *Staphylococcal* infection. An isolated *S. epidermidis* protein comprising SdrG N1N2N3, SdrG N2N3 or SdrGTR2 is administered to a human or animal to elicit an immune reaction...

Descriptors: *Staphylococcus* sp. epidermis-specific chimeric antibody, humanized

sdrgantibody.txt  
antibody, monoclonal antibody, single chain antibody prep., appl. vaccine, gene  
therapy, therapy antibody engineering antibody engineering protein...

>>>W: KWIC option is not available in file(s): 399  
7/K/22 (Item 1 from file: 149) Links  
TGG Health&wellness DB(SM)  
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01988263 Supplier Number: 73924880 (USE FORMAT 7 OR 9 FOR FULL TEXT )  
whole genome sequencing of meticillin-resistant Staphylococcus aureus.

Kuroda, Makoto; Ohta, Toshiko; Uchiyama, Ikuo; Baba, Tadashi; Yuzawa, Harumi;  
Kobayashi, Ichizo; Cui, Longzhu; Oguchi, Akio; Aoki, Ken-ichi; Nagai, Yoshimi; Lian,  
JianQi; Ito, Teruyo; Kanamori, Mutsumi; Matsumaru, Hiroyuki; Maruyama, Atsushi;  
Murakami, Hiroyuki; Hosoyama, Akira; Mizutani-Ui, Yoko; Takahashi, Noriko K; Sawano,  
Toshihiko; Inoue, Ryu-ichi; Kaito, Chikara; Sekimizu, Kazuhisa; Hirakawa, Hideki;  
Kuhara, Satoru; Goto, Susumu; Yabuzaki, Junko; Kanehisa, Minoru; Yamashita, Atsushi;  
Oshima, Kenshiro; Furuya, Keiko; Yoshino, Chie; Shiba, Tadayoshi; Hattori, Masahira  
; Ogasawara, Naotake; Hayashi, Hideo; Hiramatsu, Keiichi  
The Lancet , 357 , 9264 , 1225  
April 21 ,  
2001

Publication Format: Magazine/Journal; Refereed  
ISSN: 0099-5355  
Language: English  
Record Type: Fulltext; Abstract Target Audience: Professional  
Word Count: 10338 Line Count: 01076

Descriptors: Staphylococcus aureus--Genetic aspects; Genetic recombination--  
Physiological aspects; Drug resistance--Genetic aspects  
File Segment: HI File 149

...wall sorting signal in N315 and Mu50 genomes (table 4). These include  
seven known adhesins: fibrinogen-binding proteins ClfA, ClfB, and  
SdrC-D-E, and fibronectin-binding proteins FnbA and FnbB...

...to form clusters at several loci in the genome rather than being  
randomly distributed. The fibrinogen-binding proteins are  
characteristic in their possession of serine-aspartate repeats that precede  
the LPXTG...

...similar to Streptococcus pyogenes myosin-reactive protein,(30) which is  
known to react with the serum of patients with acute rheumatic  
fever. The other three open reading frames (SA1751, SA0841, and...Ryden C.  
A bone sialoprotein-binding protein from Staphylococcus aureus: a member of  
the staphylococcal Sdr family. Biochem J 2000; 345: 611-19.

(28) Schneewind O, Model P, Fischetti VA. Sorting...

haemolysin	SAS065
Probable haemolysin	SA1973
g-haemolysin components	SA2207, 2208, 2209
Adhesins	
Ser-Asp rich fibrinogen-binding proteins	SA0742, 2423, 0519, 0520, 0521
Probable adhesin	SA0587
Possible extracellular matrix binding proteins	SA0744, 0745
Possible fibrinogen-binding proteins	SA1000, 1003, 1004
Probable extracellular matrix binding proteins	SA1267, 1268
Elastin-binding protein...	





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...cells		
Probable haemolysin		Unknown
g-haemolysin components		Destruction of blood cells
Adhesins		
Ser-Asp rich fibrinogen		
-binding proteins	Cellular adhesion onto	
Probable adhesin		host tissues
		Cellular adhesion onto
		host tissues
Possible extracellular matrix		Cellular adhesion onto
binding proteins		host tissues
Possible fibrinogen-binding proteins		Unknown
Probable extracellular matrix		Unknown
binding proteins		
Elastin-binding protein		Cellular adhesion onto...
...infected tissues		
Others		
Myosin-crossreactive MHC class		Potential immune disorder
II-like protein		in host
Immunoglobulin		
G binding protein A	Potential immune disorder	
	in host	
Possible siderophore biosynthesis		Iron uptake
proteins...		